PATENT CLAIMS

 Method for automatic adjustment of a bus-capable field device of process automation technology to the fieldbus protocol utilized on a fieldbus,

with multiple fieldbus stack programs stored in the field device, which programs serve to extract wanted data from telegrams of various fieldbus systems, characterized by the following process steps:

- receiving telegrams sent via the fieldbus
- transferring the telegrams to the fieldbus stack programs
- processing the telegrams in the fieldbus stack programs
- selecting a fieldbus stack program for further data exchange with the fieldbus, which program has extracted further processable, wanted data from at least one telegram.
- Method as claimed in claim 1, wherein the received telegrams are transferred successively to the various fieldbus stack programs.
- 3. Method as claimed in claim 1, wherein a telegram is transferred to various fieldbus stack programs.
- 4. Method as claimed in one of the preceding claims, wherein at least two fieldbus stack programs are stored in the field device.
- 5. Method as claimed in claim 4, wherein a fieldbus stack program is a Profibus PA stack or a Foundation Fieldbus stack.
- 6. Method as claimed in one of the preceding claims, wherein the field device is a temperature sensor.
- 7. Field device for execution of the method as claimed in one of the preceding claims.